**Lab**

**Node js with Microservices**

How to submit

1. Create git repository ;
2. Upload

repoName : yourName-yourid-nodejswithms

Time : 15 mins

Functions:

Function as parameter

1.Create Login api

Rules:

1. *login method must take two two args*
2. *The first arg is one function and its variable name is “resolve”*
3. *The Second args is another function its variable name is “reject*
4. *Write a biz logic to validate username and password; you can hardcode username and password values.*
5. *If validation is success, send “Login success” else “Login failed”.*
6. *Use arrow functions*

*Time: 20 mins*

2.Create Todo Application using commonjs

1. Create Todo Service class
2. Add todo apis
   1. findAll, - should return all todos
   2. save - should take todo object as parameter , should add into todo mock array.
   3. Update – should update existing todo object inside array , return status like “todo has bee updated”
   4. Remove -should remove existing todo object inside array,return status like “todo has been removed”
3. You must have todo mock-data as array.

Time : 20 min

2.Create Customer app using async callback,promise , async await, commonj

1.create CustomerService class, having biz api

1.1. findAllV1

Should accept callback function , use timer to send data to caller

1.2. findAllV2

Should return promise – Use constructor pattern

2.Caller Application – myapp.js

You have to import CustomerService

Write startApp function

From startApp call findAllV1- pass function as parameter and get the customer result

From starApp, call findAllV2 – Use then ables to grab result

From startApp, call findAllv2 – use async and wait key word , refactor previous code.

Time : 15 mins

3.You have to add new api inside fileservice, once written you have to write promise.

* You have pass to user information as literal object as input to an api – api name you can decide.
* User information such as id,firstName,lastName,address: street,city,state, isActive
* You have to write user information in the form of json inside file called “user.json”

Time : 6 mins

Create calculator service, take two parameters called a and b

* Add two numbers
* Return the result to caller